



Kelut volcano plume evolution as seen by OMPS/LP

Didier Rault

GESTAR / MSU

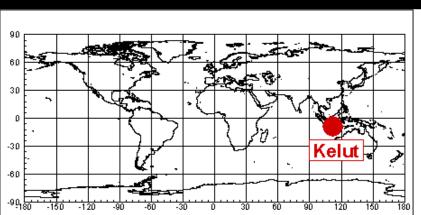
ST meeting, May 29, 2014



Kelut volcano





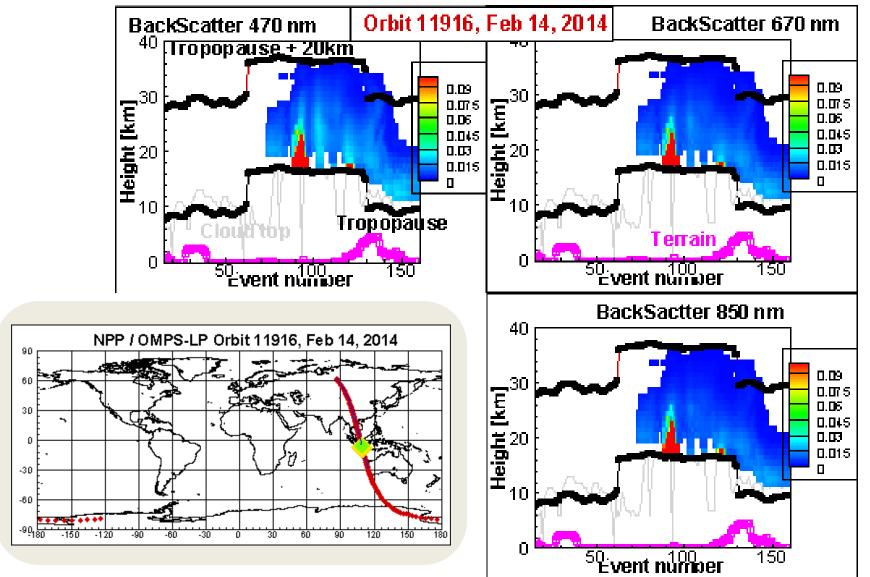


- Eruption on Feb 14, 2014
- Witnessed by numerous satellites (CALIPSO, MODIS, VIIRS,....)
- Plume tracked since eruption by CALIPSO and OMPS/LP



OMPS/LP Back Scatter Ratio

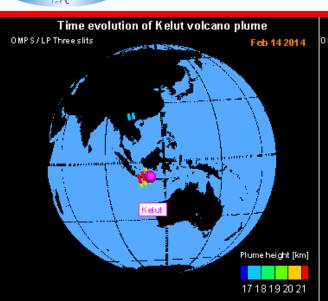


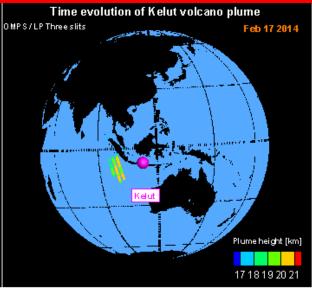


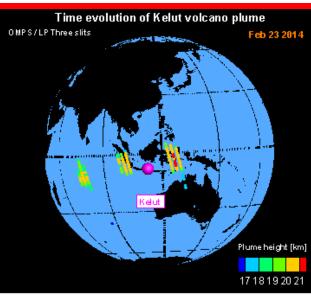


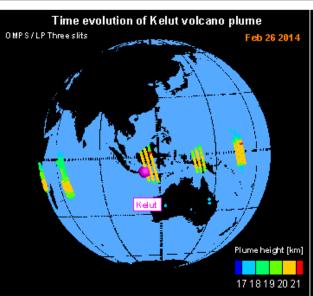
Kelut plume early evolution from Feb 14 to March 20, 2014

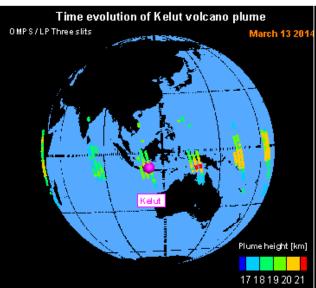


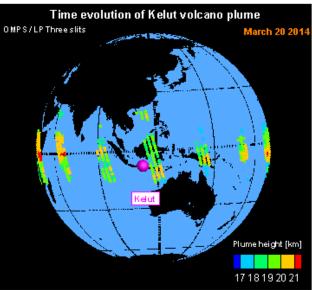








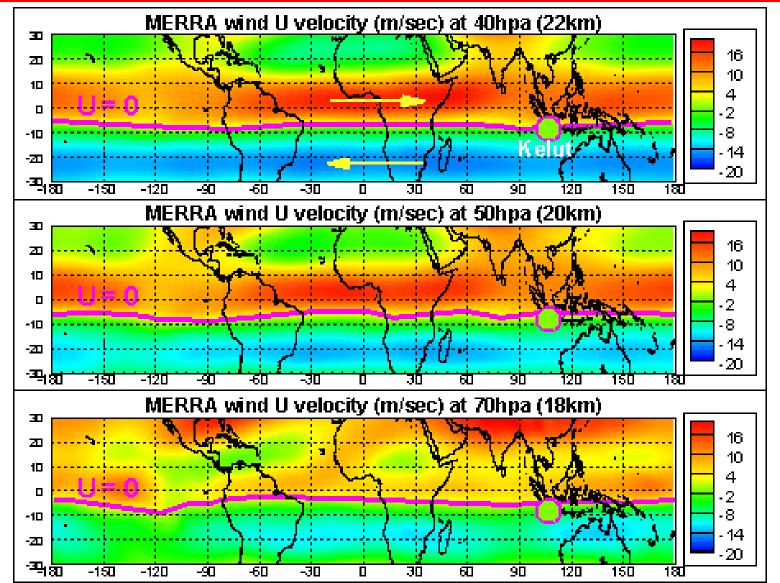






MERRA winds

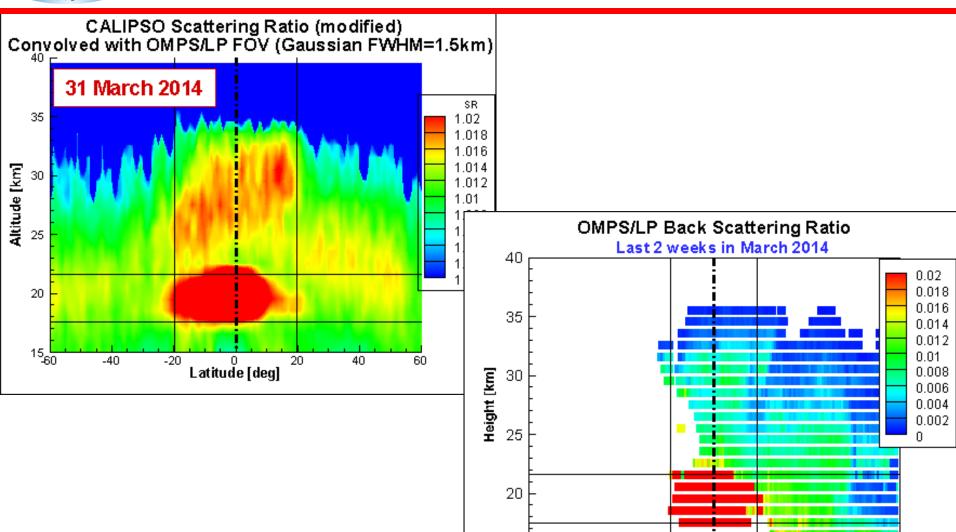






Comparison with CALIPSO





15

-50

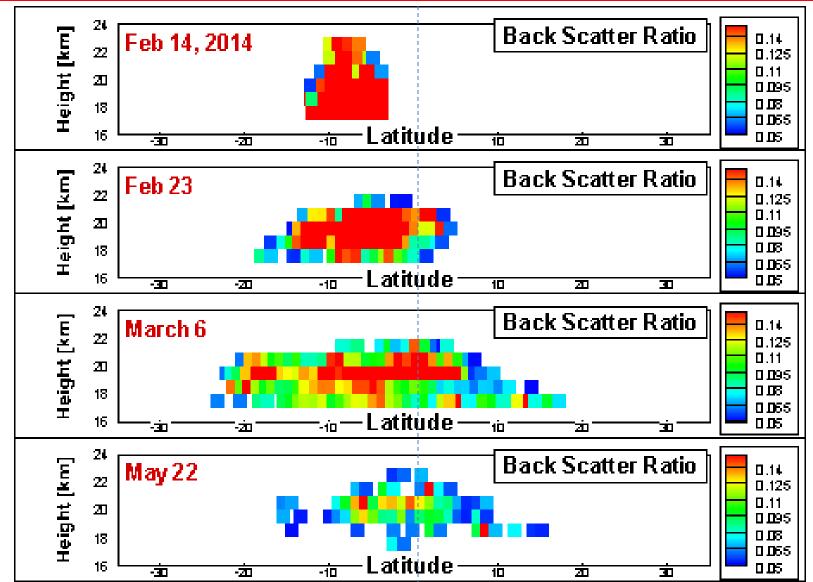
Latitude

50



Plume evolution in time (1)

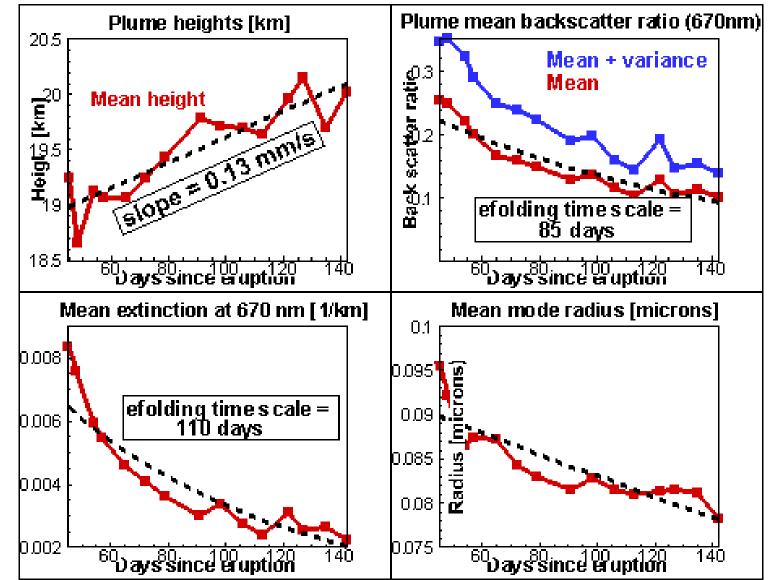






Plume evolution in time (2)







Estimate of total aerosol mass within Kelut plume



